

09/812,207

MS158541.01 / MSFTP192US

AMENDMENT TO THE CLAIMS

1. (Currently Amended): An application development system, comprising:
a development tool that facilitates application development;
a software component; and
a type descriptor ~~adapted to~~ that accesses metadata associated with the software component, the type descriptor ~~operative to~~ dynamically provides information associated with an instance of the software component to the development tool ~~to facilitate application development~~.
2. (Currently Amended): The system of claim 1, wherein the type descriptor is ~~further adapted to~~ stores the information associated with the software component.
3. (Original): The system of claim 1, wherein the information associated with the software component comprises at least one of types, members, attributes, properties and events.
4. (Currently Amended): The system of claim 1, wherein the software component is ~~adapted to~~ provides a custom type descriptor interface.
5. (Currently Amended): The system of claim 4, wherein the custom type descriptor interface is ~~adapted to~~ manipulates information associated with the software component and ~~to provides~~ the manipulated one of design time information and runtime information to the type descriptor.
6. (Original): The system of claim 5, wherein the information provided to the development tool is one of the metadata and the manipulated information received from the custom type descriptor interface.

09/812.207

MS158541.01 / MSFTP192US

7. (Original): The system claim 1, wherein the type descriptor provides the information associated with the software component in response to a request from a developer.
8. (Currently Amended): An application development system, comprising:
a development tool that facilitates application development; and,
a software component ~~adapted to~~ that provides a custom type descriptor interface ~~which is adapted to~~ provides information associated with the software component to a type descriptor, the type descriptor ~~adapted to~~ accesses metadata associated with the software component wherein the type descriptor ~~is further adapted to~~ receives manipulated information associated with the software component from the custom type descriptor interface ~~and to provides one of the metadata or information received from the custom type descriptor interface to the development tool to facilitate application development.~~
9. (Currently Amended): The system of claim 8, wherein the custom type descriptor interface ~~is adapted to~~ manipulates the information associated with the software component to determine one of a design time and a runtime behavior of the software component before providing the information to the type descriptor.
10. (Currently Amended): The system of claim 8, wherein the type descriptor is ~~further adapted to~~ stores one of the metadata or information received from the custom type descriptor interface.
11. (Original): The system of claim 8, wherein the metadata comprises at least one of types, members, attributes, properties and events.
12. (Original): The system of claim 8, wherein the information provided by the custom type descriptor interface comprises at least one of types, members, attributes, properties and events.

09/812,207

MS158541.01 / MSFTP192US

13. (Original): The system claim 8, where the type descriptor provides the information associated with the software component in response to a request from a developer.
14. (Currently Amended): An application development system, comprising:
a plurality of contained components;
a development tool ~~adapted to that~~ provides a container ~~adapted to that~~ facilitates communication among the plurality of contained components and further ~~adapted to~~ provides a site comprising a plurality of type descriptor filter service interfaces for manipulating information associated with the plurality of contained components; and
a type descriptor ~~adapted to that~~ access metadata associated with the plurality of contained components wherein the type descriptor ~~is further adapted to~~ receives information associated with a design time behavior of the plurality of contained components from the plurality of type descriptor filter service interfaces and to provides one of the metadata or information receiving received from the plurality of type descriptor filter service interfaces to the development tool to facilitate application development.
15. (Currently Amended): The system of claim 14 wherein at least one of the contained components ~~is adapted to~~ provides a custom type descriptor interface.
16. (Currently Amended): In a component based environment, a method for developing an application comprising:
determining whether an instance of a component implements a custom type interface;
invoking the custom type descriptor interface of the instance of the component, the custom type descriptor interface manipulating information regarding the instance of the component to determine one of a design time and a runtime behavior of the component;
receiving the manipulated information regarding the instance of the component from the custom type descriptor interface; and,

09/812,207

MS158541.01 / MSFTP192US

storing the manipulated information regarding the instance of the component.

17. (Original): The method of claim 16, further comprising at least one of the following acts:

receiving a request from a development tool for information regarding the instance of the component;

discovering metadata associated with the instance of the component; and,

reporting the information regarding the instance of the component to the development tool.

18. (Currently Amended): In a component based environment, a method for developing an application comprising:

receiving information regarding an instance of a component;

determining whether the instance of the component is contained by a container;

determining whether any other contained component desires to modify information regarding the instance of the component;

modifying the information regarding the instance of the component;

determining whether the container implements a type descriptor filter service interface for the instance of the component;

manipulating the information regarding the instance of the component by the type descriptor filter service interface to determine one of a design time and a runtime behavior of the component; and,

storing the manipulated information regarding the instance of the component.

19. (Original): The method of claim 18, further comprising at least one of the following acts:

receiving a request from a development tool for information regarding the instance of the component;

discovering metadata associated with the instance of the component;

determining whether the instance of the component implements a custom type interface;

09/812,207

MS158541.01 / MSFTP192US

invoking the custom type descriptor interface of instance of the component, the custom type descriptor interface manipulating information regarding the instance of the component;

manipulating information regarding the instance of the component;

receiving information regarding the instance of the component from the custom type descriptor interface; and,

reporting the information regarding the instance of the component to the development tool.

20. (Original): A computer-readable medium having computer-executable instructions for executing at least a portion of the method of claim 16.

21. (Currently Amended): An application development system comprising:

means for determining whether an instance of a component implements a custom type descriptor interface;

means for invoking the custom type descriptor interface of instance of the component wherein the custom type descriptor interface is adapted to manipulate information regarding the instance of the component;

means for manipulating information regarding the instance of the component to determine one of a design time and a runtime behavior of the component;

means for receiving the manipulated information regarding the instance of the component from the custom type descriptor interface; and,

means for storing the manipulated information regarding the instance of the component.

22. (Original): The application development system of claim 21, further comprising at least one of means for receiving a request from a development tool for information regarding the instance of the component, means for discovering metadata associated with the instance of the component and means for reporting the information regarding the instance of the component to the development tool.